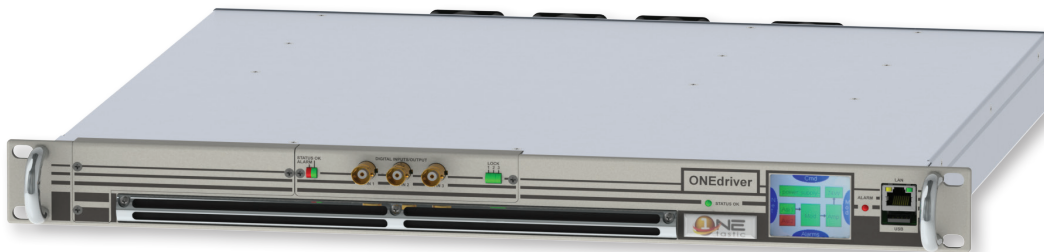




## OneDriver MultiD

### Super compact Multi-channel DAB/DAB+ transmitter (3 channels in 1 RU)



OneDriver MultiD shifts paradigm in multi-channel DAB/DAB+ transmitters.

Up to now, the simultaneous broadcasting of 3 separate DAB ensembles from the same site implied a bulky combination of modulators, power amplifiers, SFN adapters, channel filters and combiners. OneDriver MultiD wipes all that stuff away from your sites, at a fraction of the cost you can expect from traditional equipment.

Into a single 1RU chassis, OneDriver MultiD provides you with **up to 3 complete DAB/DAB+/T-DMB transmitters** with independent input, signal processing engine, DAB modulation stages, and an ultra-linear "common mode" 130W high efficiency Doherty amplifier. The generated channels are combined at low level, allowing broadcasters to avoid, in case of operation on adjacent channels, external RF combiners: the OneDriver MultiD features just a single RF antenna connector, requiring

just a single band-pass filter.

The output power can be individually set per each of the channels in use to fit compliance requirements. OneDriver MultiD also supports individual SFN operation for each DAB/DAB+ emission, and features a built-in GPS receiver.

OneDriver MultiD's modular design allows you to buy and install just the number of transmitters you need: at any later stage you'll be able to expand its capabilities.

Both the power amplifier module and the power supply unit included into the OneDriver MultiD can be easily and individually replaced while the chassis is on its frame.

Designed for last-mile applications, OneDriver MultiD saves footprint at transmitter sites and perfectly suits any low power broadcasting application, including road and railway tunnels coverage.

## MAIN FEATURES

- Compact 1U 19" Rack chassis
- Total output (common amplification) up to 150W rms
- High efficiency broadband amplifier technology
- DAB/DAB+/T-DMB modulations fully supported
- Broadband adaptive pre-correction circuits
- 3 independent ETI inputs
- No need for external RF combiner for adjacent channels operation
- On-board high stability GPS / GLONASS receiver with battery
- SNMP, Web Interface and Touch Screen display



OneDriver MultiID (front view)

## SPECIFICATIONS

### TRANSMITTER

|                              |  |
|------------------------------|--|
| <b>Digital output power:</b> | up to 150 W rms (common amplification)                       |
| <b>M.E.R.</b>                | 34 dB typ. (DAB/DAB+/T-DMB)                                  |
| <b>Frequency agility:</b>    | VHF Band III - from 174 to 240 MHz (up to 260 MHz, optional) |
| <b>Frequency resolution:</b> | 1 Hz   |
| <b>Pre-correction:</b>       | Adaptive and broadband                                       |
| <b>RF output connector:</b>  | N(f), 50 Ohm   |

### MODULATOR

|                            |   |
|----------------------------|---|
| <b>DAB/DAB+/T-DMB</b>      |   |
| <b>Standard:</b>           | EN 300401, ETS 300 799  |
| <b>Inputs:</b>             | 3x ETI (NI[G703], NA5376[G704] or NA5592[G704]) BNC (f), 75 Ohm                         |
| <b>Transmission modes:</b> | Mode I, II, III, IV<br>(Automatically detected from the ETI stream, or user selectable) |
| <b>Operation:</b>          | MFN or SFN operations   |

### GPS / GLONASS (Option)

|                                     |   |
|-------------------------------------|---|
| <b>Input connector:</b>             | N (f), 50 Ohm                                     |
| <b>Input/Monitor output 10 MHz:</b> | BNC (f), 75 Ohm                                   |
| <b>Input/Monitor output 1 PPS:</b>  | BNC (f), 75 Ohm                                   |
| <b>Phase noise:</b>                 | -140 dBc/Hz @ 10 kHz<br>-150 dBc/Hz @ 100 kHz     |
| <b>Stability:</b>                   | 1e-12 / 24 H with disciplined OCXO                |
| <b>Hold-over stability:</b>         | 5 µs after 5 hours (optional 1 µs after 24 hours) |

### MECHANICAL

|                 |                         |
|-----------------|-------------------------|
| <b>Chassis:</b> | 1U rack 19"             |
| <b>Width:</b>   | 482 mm                  |
| <b>Height:</b>  | 43.6 mm                 |
| <b>Depth:</b>   | 460.5 mm, fans excluded |
| <b>Weight:</b>  | 7.5 Kg                  |

### CONTROLS

TFT touchscreen  
Web GUI  
SNMP  
GPIO

### ENVIRONMENTAL

|                                     |                                    |
|-------------------------------------|------------------------------------|
| <b>Operating temperature range:</b> | -5°C ÷ 45°C                        |
| <b>Max. relative humidity:</b>      | 90% non condensing                 |
| <b>Max. operating altitude:</b>     | 2500 m. a.s.l. (>2500 m. optional) |

### ELECTRICAL

|                      |   |
|----------------------|---|
| <b>Power supply:</b> | Single Phase 100÷240 V~ 50/60 Hz, IEC320 C14 Plug |
| <b>Efficiency:</b>   | Up to 33%   |

### NOTES

To comply with the applicable standards and limit values for the suppression of out-of-band emissions (and in the case of digital standards, also for maintaining the required shoulder distance), the transmitter may only be operated with suitable filters at the RF output.

Specifications are subject to change without notice.



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